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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/856,969	08/01/2001	Chantal Cayuela	33339/234602	5142
826	7590 12/11/2003	EXAMINER		
ALSTON &		HINES, JANA A		
	MERICA PLAZA TRYON STREET, SUIT	ART UNIT	PAPER NUMBER	
	E, NC 28280-4000	1645	10-	
			DATE MAILED: 12/11/2003	/ >

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Appli	cation No.	Applicant(s)				
Office Action Summary		09/85	56,969	CAYUELA ET AL.				
		Exam	iner	Art Unit				
		Ja-Na	a Hines	1645				
Period f	The MAILING DATE of this communication or Reply	ation appears o	n the cover sheet with th	he correspondence address				
THE - Extended after - If the second of the	HORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATE OF	ATION. 37 CFR 1.136(a). In lication. days, a reply within the tory period will apply a li, by statute, cause the	no event, however, may a reply be statutory minimum of thirty (30) and will expire SIX (6) MONTHS be application to become ABAND	be timely filed ) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
1)[\]	Responsive to communication(s) filed	on <u>23 Septemb</u>	<u>oer 2003</u> .					
2a)⊠	↑ This action is <b>FINAL</b> . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	tión of Claims							
5)□ 6)⊠ 7)□	<ul> <li>Claim(s) 1-12 is/are pending in the application.</li> <li>4a) Of the above claim(s) 7-10 is/are withdrawn from consideration.</li> <li>Claim(s) is/are allowed.</li> <li>Claim(s) 1-6 and 10-12 is/are rejected.</li> </ul>							
•	ion Papers		•					
9) 10)	The specification is objected to by the In The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to be	a) accepted on to the drawing se correction is re	(s) be held in abeyance. equired if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).				
Priority	under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.  37 CFR 1.78.  a) The translation of the foreign language provisional application has been received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.								
Attachmer								
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTC mation Disclosure Statement(s) (PTO-1449) Pape		·	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

#### Amendment Entry

- 1. The amendment and response filed on May 23, 2003 and September 23, 2003 have been entered. Claims 1-6, and 10-12 have been amended. Claims 13-20 have been cancelled.
- 2. This application contains claims 7-9 are which have been withdrawn from consideration. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01. Claims 1-6 and 10-12 are under consideration in the office action.

#### **Drawings**

3. The drawings filed May 23, 2003 are acceptable.

### Withdrawal of Rejections

- 4. The following rejections have been withdrawn in view of applicants' amendments:
  - a) The nonstatutory double patenting rejection of claims1-6;
  - b) The rejection of claims 1-6 and 10-20 under 35 U.S.C. 112, second paragraph;
  - c) The rejection of claims 1-6 and 10-20 under 35 U.S.C. 102(b); and
  - d) The rejection of claims 1-2, 5 and 10-12 under 35 U.S.C. 102(b).

## Response to Arguments

5. Applicant's arguments with respect to claim1-6 and 10-12 have been considered but are most in view of the new ground(s) of rejection.

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# New Grounds of Rejection Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 1-6 and 10-12 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method for in vitro regulation of the inflammatory response of enterocytes, said method comprising contacting said enterocytes with a composition containing as an active agent a lactic acid bacteria strain L. casei CNCM I-1518 in a dose dependant manner, being capable of decreasing the production of Nitric Oxide (NO) by cultures of enterocytes preactivated with Cytomix combination of pro-inflammatory cytokines and bacterial lipopolysaccharide (LPS) on colon carcinoma cell lines does not reasonably provide enablement for a method for regulating of the inflammatory response of enterocytes, said method comprising contacting said enterocytes with a composition containing as an active agent a lactic acid bacteria strain being capable of decreasing the production of Nitric Oxide (NO) by cultures of enterocytes preactivated with pro-inflammatory cytokines and bacterial lipopolysaccharide (LPS). The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these claims.

The newly amended claims are drawn to a method for regulating of the inflammatory response of enterocytes, said method comprising contacting said

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enterocytes with a composition containing as an active agent a lactic acid bacteria strain being capable of decreasing the production of Nitric Oxide (NO) by cultures of enterocytes preactivated with pro-inflammatory cytokines and bacterial lipopolysaccharide (LPS).

The specification teaches at page 10 and Figure 4 teach that when the carcinoma cell lines were preactivated with cytomix and bacterial LPS, *L. casei* CNCM I-1518 reduces the production of NO in a dose dependant manner. Cytomix is at least the combination of human cytokines: interleukin- $\beta$  (IL-1 $\beta$ ), Tumor Necrosis Factor- $\alpha$  (TNF- $\alpha$ ) and interferon- $\gamma$  (IFN- $\gamma$ ). See page 6 lines 6-10. It is well known that the combination of stimuli are often required to induce the in vitro production of NO, and that the action of single agents fails to activate the cells. Therefore, only the precise combination of human pro-inflammatory cytokines will preactivate the enterocytes, as opposed to other cytokine agents.

The specification fails to teach examples of a method that meet the limitations of the claims in the manner instantly claimed. Therefore, the specification fails to enable a method for regulating of the inflammatory response of enterocytes, said method comprising contacting said enterocytes with a composition containing as an active agent a lactic acid bacteria strain being capable of decreasing the production of Nitric Oxide (NO) by cultures of enterocytes preactivated with pro-inflammatory cytokines and bacterial lipopolysaccharide (LPS). Moreover, the example shows *in vitro* methods for regulating the inflammatory response of enterocytes, by contacting said enterocytes with a composition containing as an active agent a lactic acid bacteria strain being

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capable of decreasing the production of Nitric Oxide (NO) by cultures of enterocytes preactivated with pro-inflammatory cytokines and bacterial lipopolysaccharide (LPS). There are no *in vivo* or *in situ* method disclosed, therefore only an in vitro method for regulation is enabled by the specification.

Applicants' have provided no guidance to enable one of ordinary skill in the art as to how determine, without undue experimentation, such compositions or method of producing said compositions. One of skill in the art would have to locate, de novo, active agents for said compositions and method of producing said composition as required by the instant claims.

Given the lack of guidance contained in the specification and the unpredictability for making and using the compositions and method of production, one of skill in the art could not make or use the broadly claimed invention without undue experimentation. In view of the lack of guidance contained in the specification and the unpredictability for the production of such composition and the composition, one skilled in the art could not make or use the broadly claimed invention without undue experimentation.

#### Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ja-Na Hines whose telephone number is 703-305-0487. The examiner can normally be reached on Monday-Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette Smith can be reached on 703-308-3909. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Ja-Na Hines December 1, 2003

MARK NAVARRO